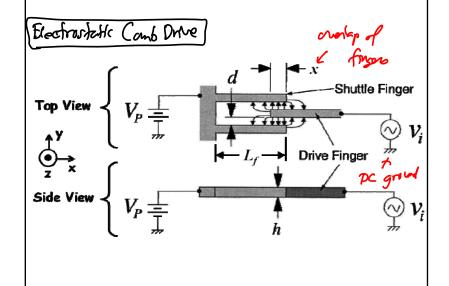
## Lecture 23-24w: Comb Drive & Equiv. Ckts. II

## Lecture 23-24: Comb Drive & Equivalent Circuits II Announcements: Reminder: 2<sup>nd</sup> project slide due this Friday Module 13 now online Reading: Senturia, Chpt. 5, Chpt. 6 · Lecture Topics: - Charge Control Voltage Control ♦ Parallel-Plate Capacitive Transducers - Linearizing Capacitive Actuators - Electrical Stiffness - 1<sup>st</sup> Order Analysis - 2<sup>nd</sup> Order Analysis Equivalent Circuits II Lecture Topics: **♥ Input Modeling** - Force-to-Velocity Equiv. Ckt. - Input Equivalent Ckt. ♥ Current Modeling - Output Current Into Ground Input Current - Complete Electrical-Port Equiv. Ckt.

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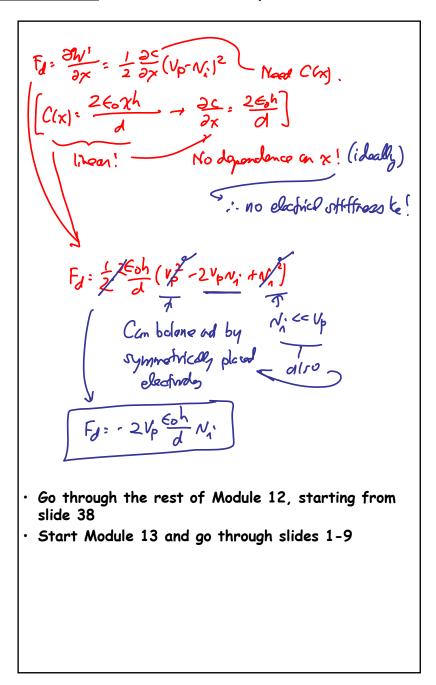
- Be able to create a table like the above comparing state-of-the-art (SOA) performance with scaled performance
- It would be nice to show at least 10x better performance
- Go through slide 35 in Module 12, looking at the advantages of comb-drive

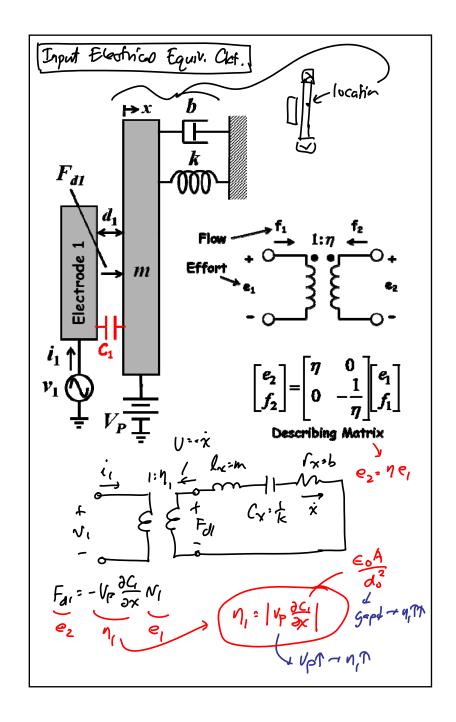


Last Time:

Finished Electrical Stiffness
Just started comb-drive

Lecture 23-24w: Comb Drive & Equiv. Ckts. II





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